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HFE 30 & 36 HOMESTEADER SAWMILL OPERATOR'S MANUAL

8201 STATE ROUTE 12 • PO BOX 345 • BARNEVELD NY 13304

A N O T E F R O M H U D - S O N

Thank you for your purchase of an HFE Homesteader sawmill from Hud-Son Forest Equipment. We are pleased that you chose us as your supplier of your forestry equipment.

Hud-Son Forest Equipment has been in the forestry business since 1965 and prides itself on developing new and innovative products for the forestry business.

Our product line is always transforming so please check us out on the web at www.hud-son.com for the up and coming developments we are making.

Should you have any questions with the setup of your mill or have any technical questions please feel free to contact our onsite technician Monday - Friday, 8 to 4:30 and Saturdays from 8 to noon eastern time at 1-800-765-7297. We are always available to our customers for any questions or concerns they may have about their equipment.

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INTRODUCTION

Purchaser Agreement

By accepting the delivery of your sawmill by Hud-Son Forest Equipment you agree that you will not modify your mill from it's original assembly. This will VOID any warranty from Hud-Son Forest Equipment.

Please fill out the information for quick reference:

Dealer: _____

Phone Number: _____

Address: _____

Purchase Date: _____

Model: _____

Serial Number: _____

Safety Guidelines

The reason for the safety section is to inform the operators and maintenance personnel, the precautions that should be taken while operating or servicing the Hud-Son Mills. Please use good judgement and keep safety in mind when operating Hud-Son machinery. Please read and follow ALL the instructions in this manual before operating the Hud-Son Mill safely at all times. These instructions were produced for your benefit. Your ability to understand and follow the instructions is essential for the safe operation of this product. Always call your servicing dealer if you are in doubt before operation of any kind.

General Safety Procedures

1 - Always wear safety glasses, ear protection, and gloves while operating or servicing the machine.



2 - Keep all body parts and foreign objects away from all moving parts. Do not reach into the machine while it is still operating. (Be Sure The Machine Is **OFF**.)

3 - Do not attempt to override any safety features on the machine.

4 - Inspect the machine before every use for wear, damage, and that it's functioning correctly. If the machine has been damaged or is not running correctly, DO NOT attempt to operate the machine. Repair or replace all parts when necessary.

5 - Do not wear loose clothing or jewelry while operating or servicing the machine.

6 - All replacement parts should be of the same specifications as the original parts on your Hud-Son machine.

7 - **All guards and covers must be in place before operating the machine.**

8 - Before starting the machine be sure that it is set up properly.

9 - **DO NOT** operate or service any machinery while under the influence of drugs or alcohol, while tired or if you are unable to control your movements.

10 - All worn or damaged decals should be replaced.

11 - Any modifications to the machine requires written approval from Hud-Son Forest Equipment.

12 - The sawmill should only be used when it is on level stable ground.

The safety rules are made for the benefit of the persons operating and servicing the machine, to prevent injury to oneself or others. Please review all setup and operating procedures before attempting to run the machine, whether covered in this manual or not, to ensure the safest operation of this product.

CAUTION BEFORE, DURING AND AFTER OPERATION



Check the engine compartment for sawdust and wood trash build up in and around the engine compartment and the exhaust area to prevent any possible fires from starting due to excessive build up. Always clean the sawdust out from under the machine after shut down and be sure there is no sawdust build up near or around the muffler area.

Hud-Son Forest Equipment is not liable for damage to property or personal injury due to the failure of any person and/or operator to follow the instructions and recommendations set forth in this manual or any other instructions or recommendations contained in other literature issued by other vendor manuals in the owner's kit.

Product Safety Decals

The decals below are used on the Hud-Son Saw Mills to identify warnings and prohibited actions. It is very important that you understand the meaning of the decals for your safety and the safety of others. Decals are to be replaced if worn or illegible.

CAUTION - Be EXTRA careful around these areas, unsafe practices may cause personnel injury or damage.

DANGER - Be careful around any rotating parts, they may cause personnel injury or damage.

DANGER - Be sure to be very cautious and alert, these areas may cause personnel injury or damage.

CAUTION - Operating equipment without guards may cause personnel injury or damage.

BLADE LUBE TANK - Be sure to use the correct lubrication, if incorrect lube is used it may cause personnel injury or damage.

NOTICE - Please remember to send in warranty card and information.

CAUTION - All debris need to be removed from machine before transporting, failure to do so may cause personnel injury or damage.

CAUTION FIRE HAZARD - Keep all sawdust away from motor.



Set-Up and Operation

Any Hud-Son Saw Mill requires a minimal amount of set-up before operation.

Be sure to wear safety glasses, gloves and ear protection at all times while operating any piece of Hud-Son equipment.

All equipment is assembled, tested and inspected before shipping. Damage can occur during transit, which could cause the unit to not operate correctly.

Unpacking Unit

- 1 - Flat bed trailer delivery: remove straps or chains securing the unit.
- 2 - Remove lag screws and strapping that secures the machine to the skid.

Moving the Unit

(Forklift is needed for track units)

- 1 - Machine needs to be lifted at the lifting point, see figure 1 for lifting points. Use a safety device for lifting to avoid any damage/injury.
- 2 - Move unit to operator's site, lower unit and remove unit from forks.

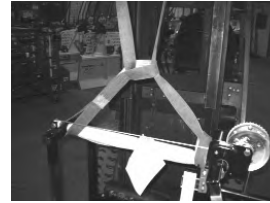


Figure 1

Before operating the Hud-Son Saw Mill the following procedures need to be performed

- 1 - Check oil and fuel levels
- 2 - Check blade lubrication and hydraulic levels (if applicable)

DO NOT USE: petroleum products, petroleum based products, flammable products, or a vegetable oil based product. The above products mixed with water or straight will cause damage to your mill. The fluid will be slippery between the blade and wheel belting causing blade to come off.

DO USE: In the summer months tap water. If there is a problem with pitch build up on the blade, with 1 oz of dish soap or pinesol added per gallon of water. This will help keep the blade clean and reduce heat.

In the winter months water will freeze in the lube tank. Use regular windshield washer fluid (usually blue in color) If there is a pitch build up problem add 1 oz. of dish soap or pinesol.

Adjustment: Before starting the engine adjust the flow of lube to the blade by adjusting the flow shut off valve so there is a constant drip. If more lube is necessary continue to adjust the valve until desired flow is acquired.

- 3 - Be sure the blade is sharp and tight.
- 4 - Be sure all levers and switches are in the neutral/center position before starting the engine (if applicable).
- 5 - Be sure all persons are clear of the equipment.
- 6 - Make sure the unit is level and stable.

Start Engine Procedure

- 1 - Summer Use: Be sure to let the unit idle for at least 5 minutes before any use.
- 2 - Winter Use: Be sure to let the unit idle for at least 15 minutes before any use.
- 3 - If the unit has been sitting for a period of time, allow the unit to run long enough to have the oil do a complete circulation before use.

Steps for Setting-Up the Hud-Son Saw Mill

A. Machine Set-Up

- a) For best results and easier set-up, the mill location should be level and free of obstructions.



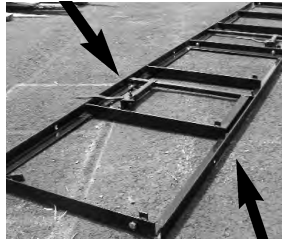
Figure 1-A

- b) A level cement pad is the best option, but square timbers also work well. You will need to support the track at each joint and under each cross member.
- c) You will need to be sure that the mill is level from front to back and side to side. The better the mill is supported the better the mill will work.
- d) There should be a 4 ft. clear work area around the entire mill.

B. Welded Track Assembly

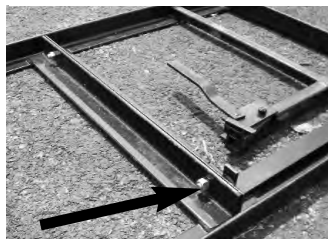
- a) Dogs need to be facing in the same direction. The moveable dogs need to be on the same side of the track, which is on the operator's side of the mill head. (figure 2-A)
- b) There are additional holes in the track so that the dogs can be moved to different positions.
- c) The tracks are bolted together using bolts and nuts. The HFE- 30/36 mill has three end bolt/nuts per end. Line up the tracks so that the holes align. Place the provided bolts through the holes and finger tighten the nuts. Adjust the track height so that the two pieces of track meet flush and level. Work one side and then the other, until level. Check the track to see if it aligns vertically, if not use a hammer to tap it into position. Once it is aligned, tighten the bolts securely. (figure 2-C)

Moveable dogs on one side
Figure 2-A



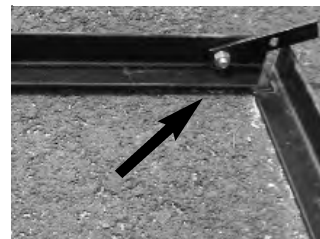
*Track on level ground,
free of obstructions*

Figure 2-C

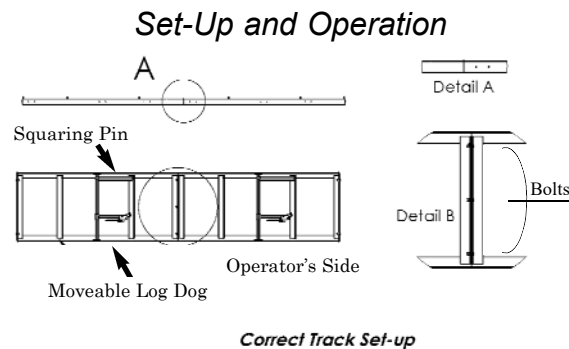


*Bolted together Track
Flush & Level*

Figure 2-D

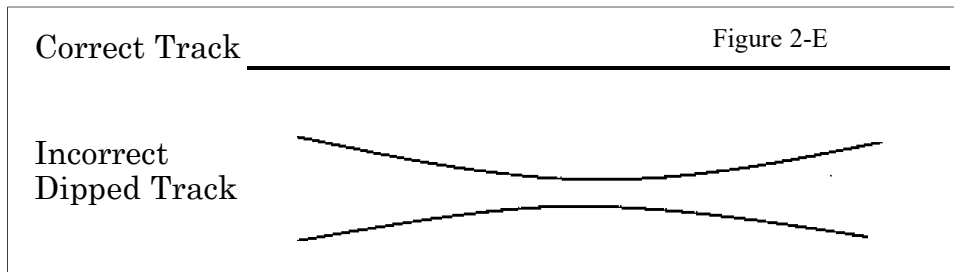


Track Stops



d) The track comes with four track stop tabs. They consist of the track stop tab bolt and nut. Place the tracks stops in the four end corners of on the inside of the track. Place them on the inside of the track secure them into place with the bolt and nut. The track stop tabs are placed at an angle over the track to prevent any further travel of the mill head. (See figure 2-D)

e) To saw a board accurately, the track needs to be straight and flat. To obtain this, use a string tied tight from end to end or a level. If the track/trailer has a crown or dip, you will not be able to saw a straight board. (See figure 2-E)



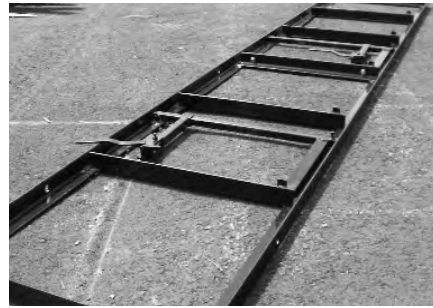
Setting Head on Track (If Applicable) Ground Models
Once your track is level, you are ready to set the head on the track. Once again, be sure the area is still free and clear of obstructions. You will want the head to roll freely down the track.

- a) Install the head with the operator's side on the same side as the moveable dog. The discharge side is the side with the squaring pins.
- b) Raise the head 3 inches and roll from one end to the other. The head should roll smoothly along the track. If the head "thumps" when it passes over the track joint,

check to make sure the tracks are level. Re-level the track and try rolling the head again. Also be sure to watch the track as you roll the head, if the track moves, you will need to support the track in that area.



Correct head placement; Operators side is on side with the scale stick.



Squaring arm on right, adjustable dog on left.

GUIDE ADJUSTMENT

a) Set the guide bracket so that the back bearing is on the same plane as the blade, so if the blade was to wander back it would hit the back bearing evenly across the middle of the roller. If the bearing needs to be adjusted up or down, loosen the bolt that holds it to the guide bracket and space it in either direction using the washers that are on either side of the bearing.

b) Once the bearing is set, position the guide bracket so that the bearing is spaced 1/8" behind the back of the blade. Once the bearing is in position, tighten the bolt on the top of the guide bracket into place. Be sure the guide is 90° to the blade.

c) The guide shoes are to be set using a sheet of paper to gauge the spacing. Place the paper between the shoe and the blade, slide the shoe so that it is pinching the paper, and tighten the bolt so that the shoe is set in place. Do the same on the bottom of the blade. Note that you do not want the shoes to be pinching the blade so hard that they are prohibiting blade travel.

d) Make sure that all nuts and bolts are tightened firmly.



Pictured is a close-up of the guide. It shows all the bolts and bearings that can possibly be adjusted. Note how the teeth are outside of the guide.

Tools that will be needed:

1. 3/4" wrench
2. 3/4" socket
3. 9/16" wrench
4. 3/16" Allen wrench

Set-Up and Operation

Tensioning the Blade on all Models

NEVER tension your blade with the engine running. Your mill is shipped to you without any tension on the blade. If there is tension left on the blade for a period of time, it can cause flat spots in the wheel belts. This will cause the blade to fall off the wheel. Always remember to de-tension your blade when you are done sawing for the day.

a) To tension the blade, remove the guards and loosen/tighten the nut on the tensioning bolt.

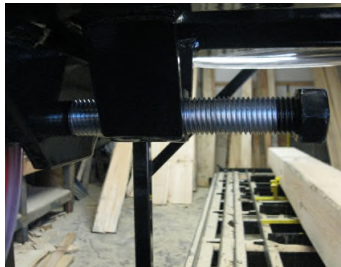
b) Turn the adjusting bolt or stud, clockwise until 30-35 pounds of torque is achieved. The recommended tool for this is a torque wrench. Rotate the blade by hand 3-4 full revolutions; this centers the blade on the wheels.

c) With gloves on, pull up on the blade at the center guard. Allow for no more than a ¼" movement up or down on the blade.

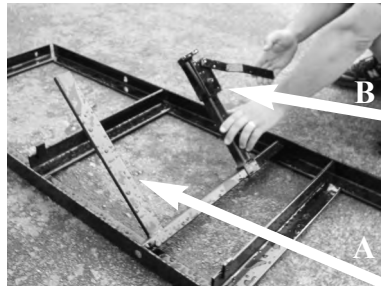
d) Blade guides must not be so tight they cause the blade to move up or down.

e) Perform a simple test call the "Flutter" test. Put the guards on and then run the engine at full RPM's (be sure the blade is not in a cut during this test) and watch the blade under the blade guard. The blade must run straight. If it does not, shut the engine down and apply more tension. Keep in mind that over tensioning will also cause the blade to flutter. You should attain proper tension around 30- 35 pounds.

f) A tensioned blade should come off the bottom of the band wheel and run straight across to the other band wheel so there is NO sag in the blade between the two wheels.



Setting Logs - Once the track is set, the head is in place and the blade is tensioned correctly, you are almost ready to cut.



Squaring Arm- A

Adjustable Dog - B

Getting Ready to Cut - Now is the time to debark or clean your log. This can be achieved by the simple chainsaw attachment, called a Log Debarker (available through Hud-Son Forest Equipment Inc.) or you can pressure wash or use whatever method available to remove any mud or bark from the logs. By debarking and cleaning your log it will extend the life of your blade.



Debark the log.

(Note: as you cut slabs, boards, or squares you may need to adjust the guide to ensure the best performance and quality cuts)



- b) Find the top of the log with the blade. You will be removing the top portion of the log (top slab).
- c) On the manual lift models, crank your head down to the desired height and click up one notch to set the head. Make sure your blade will clear your dog assembly.
- d) Start your engine, let it idle for at least 5 minutes. (Refer to the engine manual for proper engine maintenance)
- e) With the engine in idle position, increase the throttle to start the blade. Sawing should always be done with the engine in full throttle.
- f) Gently push the saw head through the log, pushing on the head frame. If the engine starts to labor, you are going too fast, slow down. Go slow through burls and knots as the engine may bog down through these parts of a log.
- g) When you are at the end of the log, power down the engine and crank the head up so that will clear the log. Roll the head back to the front of the log. For ease of operation, put the slabs on the operator's side of the mill far enough away so you are not walking on them. This way you will not have to dig through sawdust for your lumber.
- h.) You now have a flat surface on top of your log. Remove the cheaters (if applicable), as long as the log dogs will hold the log in place you will no longer need them.
- i) Set your log dog assembly so that they are standing vertical to the track. Turn the cut side of the log 1/4 of a turn, using a cant hook. The flat side must be flush against the squaring pin to assure a square cant.
- j) Adjust the log dog at an angle to the track, so that the blade can pass over the top, and the dogs are effective in securing the log.
- k) Increase the engine throttle to start the blade and saw another slab. You will repeat step (i) until your log is squared into a cant. You may now saw your dimensional lumber.
- l) Steps (i-k) may not be applicable if a cant is not desired.

Place flat side, flush against squaring pin to ensure a square cant.

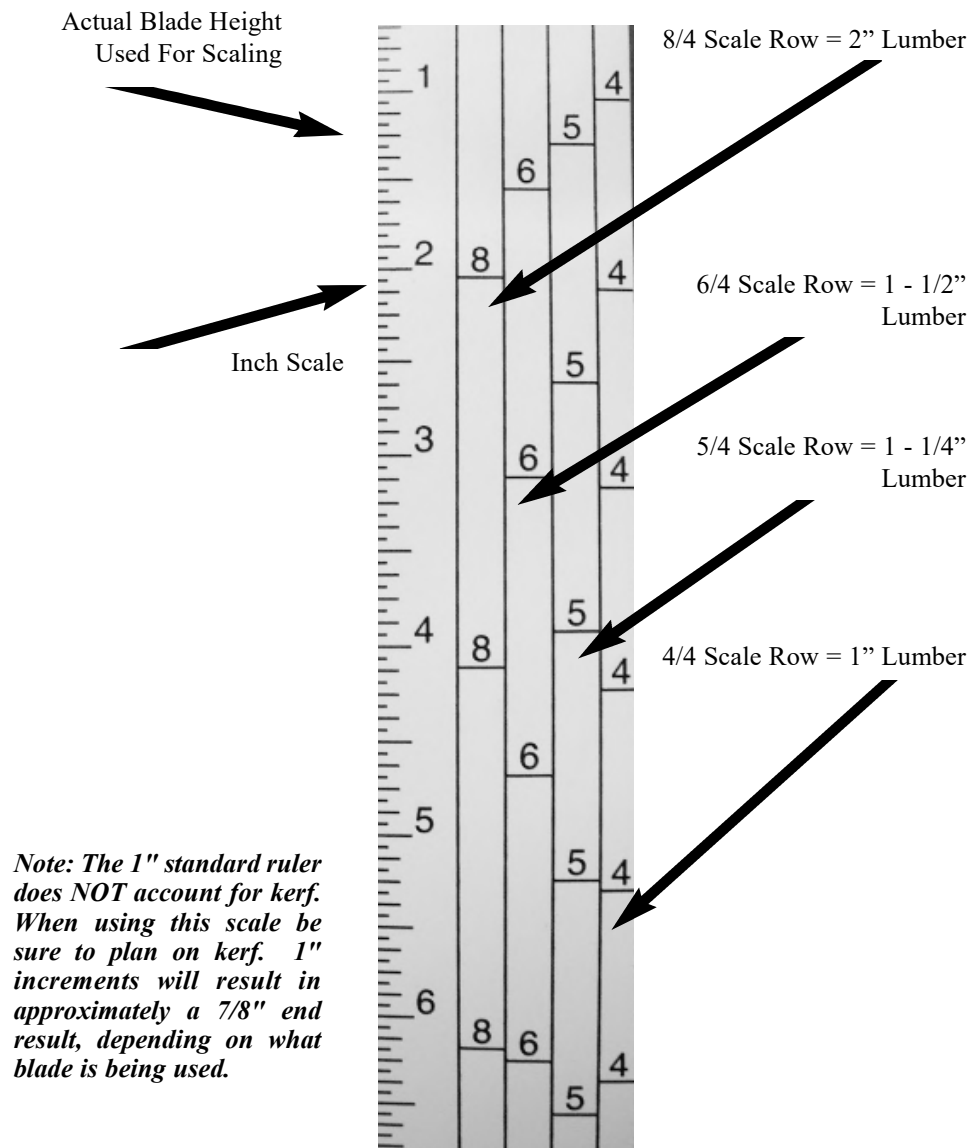


Adjustable dog, set at an angle so that log can be sawed without interference.

Using the Lumber Scale

a) All Hud-Son sawmills are equipped with a Lumber Scale. The scale is used to make the dimensioning process simple. The scale incorporates 4 separate scales with the blade kerf factored in for each increment.

Scale	Resulting Thickness
4/4	1"
5/4	1 - 1/4"
6/4	1 - 1/2"
8/4	2"



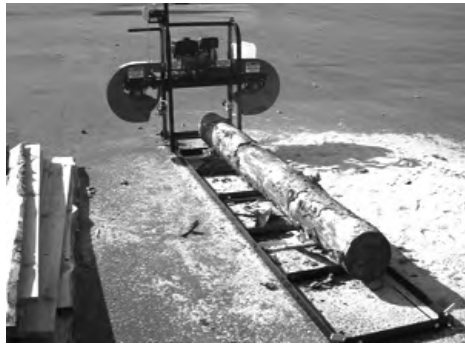
I. Cutting Dimensional Lumber

You can cut down to a 1" thick bottom board. To achieve this you will use the moveable side of the dog and the short squaring pins welded in the track.

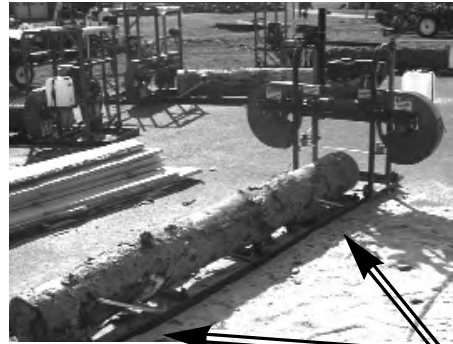
a) You will need to determine the size lumber that can be cut and how many, then using the scale start sawing your lumber. Lower the blade to desired thickness and saw your board. Repeat this process until all lumber is cut.

b) You may need to turn your cant to make the desired lumber.

c) See pictures 1-5 on the following page.



#1. Place log on track.



#2. Use log dogs to hold log in place.



#3. Adjust blade height, rev engine.



#4. Start cutting.



#5. Cut log into desired dimensional lumber.

End of Processing Lumber

- a) Completely decrease engine throttle and turn engine switch to off position.
- b) The blade will continue to turn automatically and will coast to a stop.
- c) If you are done sawing for the day, de-tension the blade so that you do not cause damage to bandwheel belts. Lower the mill head so that the lift cable has slack.

Blade Maintenance

The longevity of band blades depends on how well they are cared for. The use of a lube tank, log debarker, band blade sharpener and/or, tooth setter will help keep your blade in top condition. Be sure to clean your logs by keeping them free of mud and debris using a pressure washer

Blade suggestions

- a) Never force a dull blade. This will result in overheating of the blade and result in wavy lumber.
- b) Overuse of a blade jeopardizes the ability of the saw blade to be re-sharpened.
- c) A new blade may stretch after cutting and may have to be re-tensioned to assure a quality lumber.
- d) De-tension the band blade after each day of cutting.
- e) Never operate the mill without the guard in place.

The Hud-Son Forest Equipment, Inc sawmill comes with a Hud-Son band blade. and we have an excellent re-sharpening program for your band blade.

Replacing the Blade

No matter how well you care for your blade, it will dull after time and need to be changed. Longevity of your blade depends on how well you maintain it.

- a) The engine must be stopped, turned off and have it's key removed, to ensure that the engine could not be accidentally turned back on. On engines with manual start, the spark plug wire will need to be removed prior to servicing. On electric motors a lockout/tagout should be used.
- b) Loosen and remove nuts so that the outside and center guards can be removed.
- c) Loosen band blade tensioner bolt until adjusting bolt is flush with threaded plate.

- d) With a gloved hand, put hand on the top of the band blade and push down. (Use extreme CAUTION, dull blades are still sharp and may be hot).
- e) Remove band blade from both band wheels and take out of carriage.
- f) Inspect new or sharpened blade making sure blade teeth are facing in correct direction. Teeth should always point away from the operator (Towards discharge chute). Be sure to wipe blade clean of all oily substance prior to installing with a clean, dry rag or cloth.
- g) Starting from your stationary wheel set the blade on the wheel and thread through your guides. Work the blade over the tensioning wheel until the it is set.
- h) Lightly tension the blade to remove the slack, and then turn the wheel in the direction of travel (towards the operator) 3-4 rotations to be sure the blade is tracking properly on it. The back of the blade should be flush with the back of the bandwheel.
- i) Once the new blade is tracking properly, replace the guards and re-tension the blade.

Care and Maintenance

Hud-Son Saw Mills require a certain amount of care and maintenance, so that it may continue to perform at its best. If you are not confident in your ability to perform the maintenance that is required, please look into having a professional come in and perform the work for you.

Cleaning your Saw Mill

- ✓ Using an air hose, blow off all loose debris that builds around the unit.
- ✓ Use extreme caution when cleaning the mechanism.
- ✓ Never use flammable or combustible materials to clean the mill.
- ✓ Be in a well ventilated area. Always wear protective equipment to prevent injury.
- ✓ Use proper procedure to dispose of waste materials.
- ✓ Wipe down the idler and pulley wheels using an air hose, brush or rag.
- ✓ Clean and inspect blade guides.

- ✓ Check blade tracking, a 1 - ¼" blade should be centered on band wheels.
- ✓ Check bearing, idler and pulley wheels for wear. Signs of wear are:
 - ✓ Excessive heat
 - ✓ Squeaking sounds
 - ✓ Looseness
- ✓ Grease idler, pulley wheels and bearings.
- ✓ Grease blade tensioner shaft.
- ✓ Grease the lift tubes.
- ✓ Check all belts for wear and to make sure the belt tension is "taut".
Belt should have no more than ½" deflection.

Preventative Maintenance

- ✓ Check for correct blade tension guaranteeing that 30-35 pounds of torque is on tensioning bolt/nut.

MAINTENANCE SCHEDULE CHART - Service Recommendations for Hud-Son Sawmills





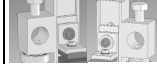




Service Item	Daily	40 Hours	See Manual
Check Engine Oil Level	✓		
Check/Clean Engine Air Filter	✓		
Check Hydraulic Oil Level (fill 1" from top) if applicable	✓		
Clean Unit of Bark, Saw Dust, and other Debris	✓		
Lubricate Grease Fittings and Oil Points (see Diagram for locations)		✓	
Check Tire Pressure - Upon transport (if applicable)		✓	
Check Cylinders and Seals for Leakage	✓		
Check Feed Chains for tension (if applicable)	✓		
Clean Battery Connections (if applicable)		✓	
Check Wiring and Connections for Corrosion and Decay		✓	
Lubricate Chains (if applicable)		✓	
Check Blade Sharpness	✓		
Fuel - fill as needed	✓		
Blade Lubricant - fill as needed - <i>Refer to 2A on page 6</i>	✓		
Check hoses/gauges for damage, cracks, leakage (chaffing, dry rot, cracks, replace hoses if applicable)	✓		

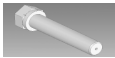
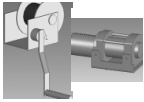


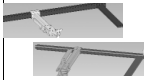
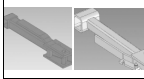




*** Change engine oil after 8 hours of operation on a new engine (break -in period)**

CAUTION!

Maintenance Procedures requiring special training or tools should be performed by a trained technician.

A routine inspection of the entire machine is encouraged. Check to see if all fittings are tight and secure. Make sure all nuts are tightened. Check to see if there is any damage that may need to be repaired before further damage occurs. Routinely checking the equipment and proper maintenance will help keep the Hud-Son Saw Mill running to the best of its ability.

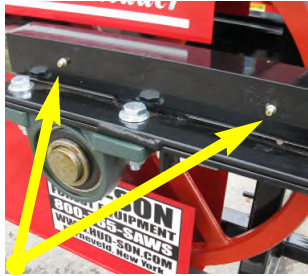
Part Picture	Description	Part Number	Warranty
	Gasoline Engine	25T2320135F1-AY1012	2 Years - Single Cylinder 3 Years - Twin Cylinder
	Electric Engine		1 Year - Call your servicing Hud-Son Dealer.
	1.5" Pillow Block Bearing, 1" Pillow Block Bearing	UCP208-24B	6 Years - Call your servicing Hud-Son Dealer.
	Drive Belt	B77, B85 B92, B79	1 Year - Call your servicing Hud-Son Dealer.
	Rubber Wheel Belting	HF-49 B56.5	
	Urethane Wheel Belting	HF-49 HF-56.5 HF-77	1 Year Defect - Not Melted
	Tapper Lock, SK Bushing	SK-1-1/2	1 Year
	Drive Belt Tensioner (Idler Pulley)	FA30025B0002	1 Year
	Guide Assembly, Left/Right (see breakdown for parts list)	976-072	30 Days - Call your servicing Hud-Son Dealer.
	Scale Sticker	D/85 D/13	1 Year
	Site Glass Assembly	UG-100	1 Year
	Cable Lift Kit Assembly	CABLE	1 Year
	Band Blade	WM167	1-800-765-SAWS
	1 - 1/2" Shaft (Idler/Drive Side)	SHAFT-12.5CG	6 Years - Call your servicing Hud-Son Dealer.

Part Picture	Description	Part Number	Warranty
	Bolt for Track Wheel	976-026	2 Years
	Track Sections	TE-30-36	1 Year - Call your servicing Hud-Son Dealer.
	Axles (Trailer Models)		1 Year - Call your servicing Hud-Son Dealer.
	Hydraulic Motors, Pumps, Valves, Hose & Fittings		1 Year - Call your servicing Hud-Son Dealer.
	Sprockets & Chain		90 Days - Call Hud-Son and ask for the warranty department.
	Winch	T2000 T2000-6-1	1 Year - Call your servicing Hud-Son Dealer.
	Clutch	160023 DOUBLE CLUTCH 160021 SINGLE CLUTCH 4075P007 SMALL CLUTCH	30 Days- Call your servicing Hud-Son Dealer.
	Band Wheel	1B184SK	1 Year - Call your servicing Hud-Son Dealer.
	Log Dog w/Back Stop	Dog-18 Dog-288 Dog(30/36)	2 Years - Call your servicing Hud-Son Dealer.
	Log Dog Only	Log Dog (18/228) Dog Only (230/236)	2 Years - Call your servicing Hud-Son Dealer.
	Track Wheel w/Replacement Bearing	976-019	2 Years - Call your servicing Hud-Son Dealer.
	Replacement Bearing for Track Wheel	BEA-03-12-24-T	2 Years - Call your servicing Hud-Son Dealer.
	Pulley for Lift Cable	976-004	1 Year - Call your servicing Hud-Son Dealer.
	Cheater	Oscar 18 - Cheater Oscar 228 - Cheater	2 Years - Call your servicing Hud-Son Dealer.
	Guide Pins	DH-1098-Z	2 Years - Call your servicing Hud-Son Dealer.
	Modular Guide Tube	O30-003-02 O18-0228-004-01 O30-003-01	2 Years - Call your servicing Hud-Son Dealer.
	Bolt on Lube Tank	MIL-07-001	2 Years - Call your servicing Hud-Son Dealer.

Trouble Shooting

<i>Problem</i>	<i>Cause</i>	<i>Solution</i>
<i>Blade is Diving/ Rising</i>	Dull Blade • RPM's Not High Enough • Blade Not Tensioned Properly • Sawing Soft Pitch Wood • (Pitch Build-Up in Blade Gullets)	Sharpen or Replace Blade • Saw at Full Throttle • Check Torque on Tensioning Bolt • (Perform "Flutter" Test) • Use Lubricant on Blade PETROLEUM PRODUCTS, MINERAL OIL OR VEGETABLE OIL SHOULD NOT BE USED ON OUR MILLS - Saw Tree from the Top to the Bottom (small end to wide end) Slow Down • Reset Teeth to Proper Set
<i>Mill Sawing Hard</i>	RPM's Not High Enough on Engine • Belt is Slipping • Sawing Hardwood Dull Blade • Bark or Sawdust Build-up on Wheels or Track	Always Saw at Full Throttle • Adjust Belt Tension Slow Down your Sawing Speed • Sharpen or Replace Blade • Clean Wheels and Track
<i>Clutch Slipping</i>	Dull Blades • Debris and/or Oil can cause slippage • Pushing the saw too fast through log	Sharpen or Replace • Clean out clutch bell Inspect/repair springs and shoes • Slow down
<i>Engine Powers Down Losing RPM's</i>	Pushing the Mill too Fast • Dirty Air Filter Dull Blade	Slow Down your Sawing Speed • Clean/Change Sharpen/Replace Blade
<i>Mill not Sawing Square</i>	Over Dogged • Track Not Level & Square • Cables are Out of Line • Guides are Out of Adjustment • Not Putting Flatside of Cant Flush with Squaring Post on the First Turn • Bad Trolley Bearing	Loosen Dog Pressure • Level Track • Re-adjust Cables • Re-Adjust Blade Guides Put Cant on Flatside, Flush with Squaring Post • Replace Trolley Wheel
<i>Log Moves When Dogged</i>	Over Dogged, too Much Pressure on Dogs	Loosen Dog Pressure
<i>New Blade Will Not Cut</i>	Blade Could Be Turned Inside Out	Turn the Blade So That the Teeth are Pointing to the Discharge Direction
<i>Boards have Fine or Large Lines in them Every Several Inches in a Repeating Pattern</i>	A Tooth in the Blade is Out of Set	Reset Tooth in Blade

MAINTENANCE & LUBE ORDER FOR HFE 30 & 36



*Tensioner wheel slides.
Keep clean and grease weekly.*



Blade lube shut of valve



*Pillow block bearings.
Grease weekly.*



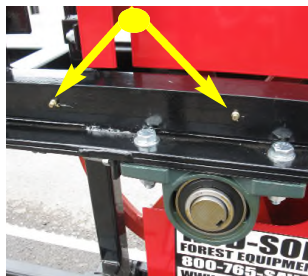
Air filter cover.



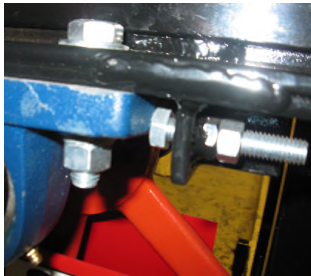
*Use a light grease for winch
sprocket.*



Engine oil check and fill port



*Tension wheel slide plates.
Grease as needed both side
of head.*



*Dead head adjustable bolt, keep
from rusting.*



*Blade lube tank, keep adding
during use and be sure to drain
in cold weather.*



*Tension wheel slide plates.
Grease as needed both side
of head.*

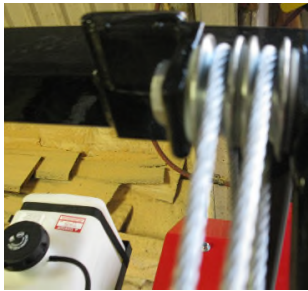


*Blade lube flow valve on/off
adjustable flow.*

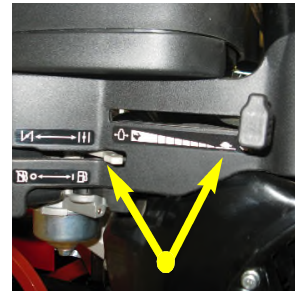
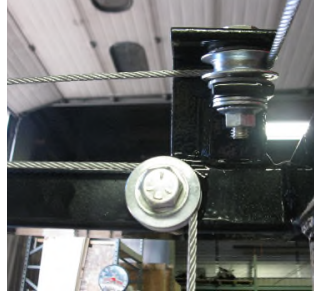


*Part #24 - extended guard
fastener to remove guard for
blade change.*

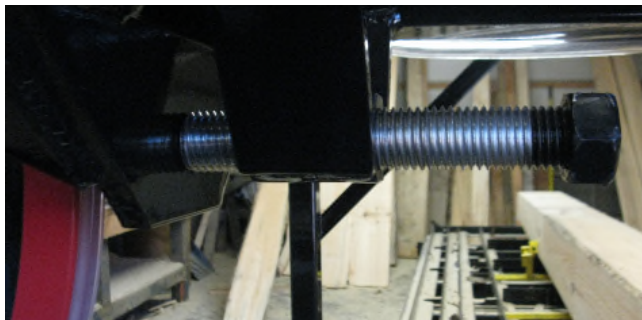
MAINTENANCE & LUBE ORDER FOR HFE 30 & 36 *CONTINUED*



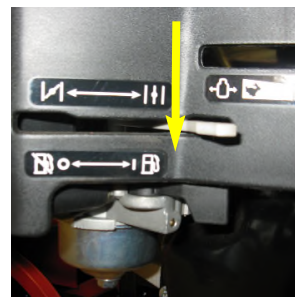
Cable pulleys - oil daily with a light oil or grease



Engine choke and throttle



Keep threads clean and lubed. Blade tension bolt 30-35 ft lbs. torque.



Fuel shut off valve - turn fuel off when not in use.



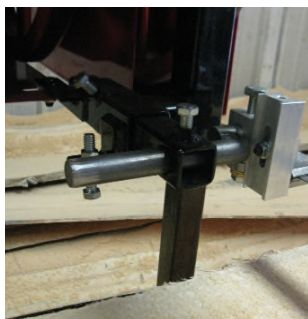
Blade guard nuts end guard



Owners manual tube



Keep groove clean - track wheel, light oil



Fixed blade guide



Adjustable blade guide bar and locking bolt.

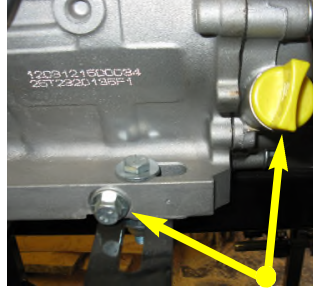


Fuel tank - gasoline only.

MAINTENANCE & LUBE ORDER FOR HFE 30 & 36 *CONTINUED*



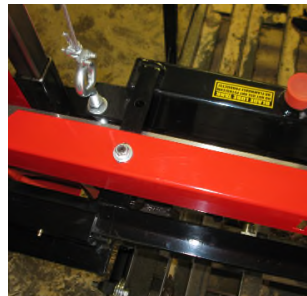
Sight glass and sawmill scale bar



*Engine oil drain plug
and fill port*



Engine/on/off switch



*Top blade guard - remove for
blade change*



*Air filter - check or clean
daily.*



Centrifugal clutch

Warranty:

Warranty registration cards must be completed and returned to Hud-Son Forest Equipment, Inc. within 30 days of purchase. Failure to do so will void the warranty. Also altering the mill in any way will void the warranty. Warranty claims must be registered with the Dealer/Distributor, and defective parts must be returned to the Dealer/Distributor at the owner's expense. The Dealer/Distributor will assume cost of the shipping one way in regards to any warranty claim. Freight is standard UPS ground. Any expedited services are at an additional charge and will be paid in full before shipping at the owner's expense. The shipping of warranty/parts out of the continental USA, will not be covered under warranty. The labor charge out of the continental USA is also not covered under warranty.

Fuel system problems caused by the failure to use fresh fuel (less than 30 days old) - Gummy deposits, varnish and/or corrosion due to old gas are not covered by warranty. Since we have no control over the quality of gasoline and we know it deteriorates with age, the warranty defines "fresh" fuel as less than 30 days old.

Warranty Claim Procedure: All warranty claims that are done in the field must be handled as follows:

- 1 - Customer must call the Dealer/Distributor and acknowledge the problem.
- 2 - If the problem can be solved in the field, new parts will be shipped, invoiced and paid for. A credit will be given once the old parts are returned, if covered by warranty.
- 3 - Parts to be replaced must be returned at the owner's expense within 30-days to receive credit.
- 4 - If the problem is deemed too severe to be fixed in the field by the customer, then the customer must bring the saw mill at the owner's expense to the closest Hud-Son Dealer/Distributor for repair. If the Dealer/Distributor is not qualified to make the repairs, then the equipment must be returned to Hud-Son Forest Equipment, Inc at the customer's expense.
- 5 - If the problem is not a warranty problem, the customer will be charged for the parts replaced and the labor time spent repairing mill.
- 6 - Any modification to the band mill that is performed by any personnel other than Hud-Son Forest Equipment, Inc direct staff voids the warranty.
- 7 - Any parts that are replaced without the discretion of the Dealer/Distributor voids the warranty on the part the customer is replacing and no reimbursement will be made.
- 8 - Parts purchased by the customer from an outside source, without prior approval from Hud-Son Forest Equipment, Inc will NOT be reimbursed.
- 9 - All mills have a 2 year warranty against manufactures defects.

ALWAYS CALL YOUR SERVICING DEALER FIRST!!

Dealers/Distributors carry parts and are very knowledgeable with the inner workings of your sawmill. Remember that modifying your mill or using parts that are Not Hud-Son Forest Equipment Inc approved, can void your warranty.

CE Approved Models: European Mills- Warranty on Parts ONLY!!

No warranty on labor or shipping.

Warranty/Service Information:

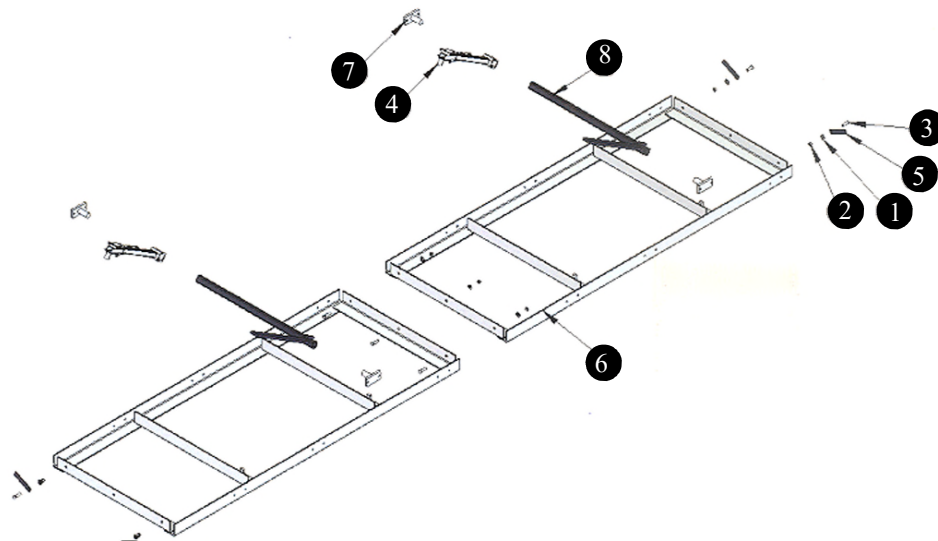
Please contact our warranty department with any issues or to reorder parts,
at 315-896-4316 or 1-800-765-SAWS.

Hours of operation are M-F 8:00 - 4:30; Saturday: 8 - noon est.

**IF NOT IN THE CONTINENTAL USA - HUD-SON DOES NOT PAY
FREIGHT OR SHIPPING ON WARRANTY OR LABOR.**

Track Assembly Oscar HFE 30-36

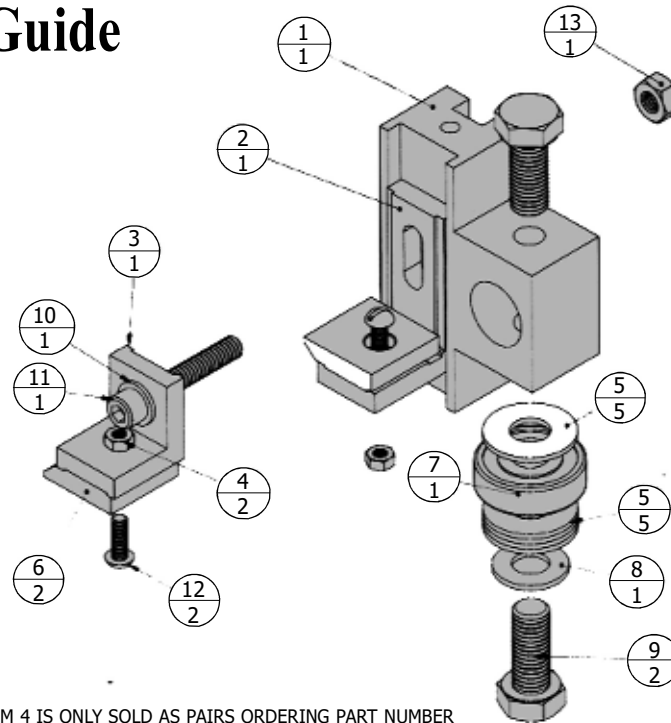
O30, O36-004



Track Parts List HFE - 30 & HFE 36

Item No	Part No	Description	Qty.
1	F-93394	1/2 ZFW	7
2	F-58954	1/2X13 ZHN	7
3	F-42823	1/2-13 X 1/2" ZHB	7
4	976-028-CG	O30/36 LOG DOG	2
5	MIL-5-03	TRACK STOP BRACKET	4
6	MIL-15-01-30306	OSCAR 30/36 TRACK WELDMENT	2
7	O30 O36-004-002-2	J-BAR ROTATOR PLATE ASSY	4
8	O30 O36-004-00-3	O30/36 J-BAR ASSEMBLY	2

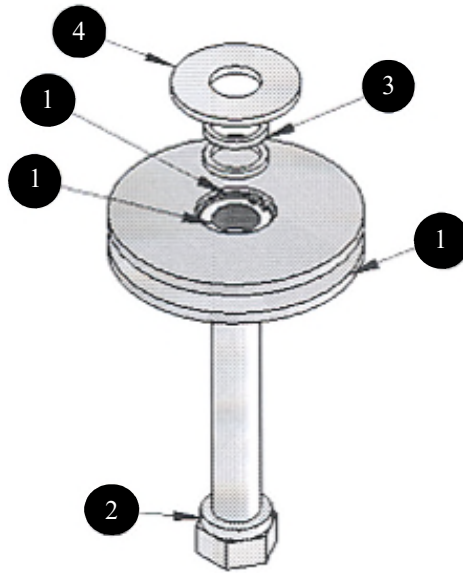
Blade Guide



NOTE: ITEM 4 IS ONLY SOLD AS PAIRS ORDERING PART NUMBER
CP20-10A INCLUDES TWO SHOES, TWO NUTS
(ITEM 13, AND TWO SCREWS (ITEM 12)

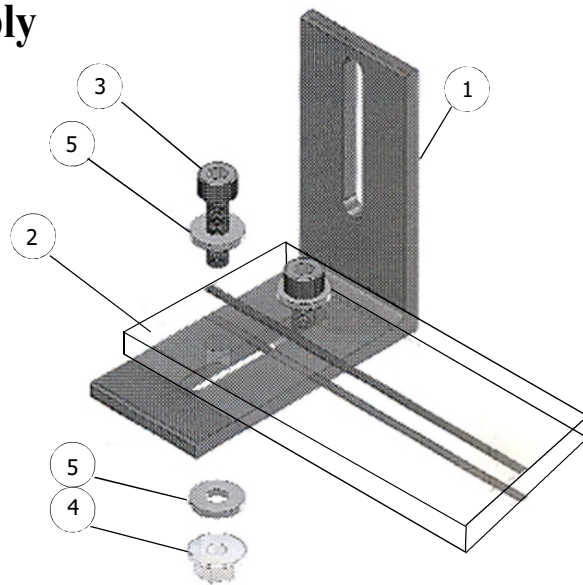
Item No	Part No	Description	Qty.
1	BLG-01-06	S Guide Body	1
2	BLG-01-05	Long Shoe Holder	1
3	BLG-01-4	Short Shoe Holder	1
4	HAR-33-M4	M4 x .7 Metric Hex Nut	2
5	HAR-50-06-100-82	3/8 flat washer USS larger, zink finish	5
6	BLG-01-01	Guide Shoe (sold as pairs)	2
7	BEA-03-06-16	6200-2RS Bearing	1
8	HAR-50-06-822-68	3/8" flat washer, SAE small	1
9	HAR-03-M10-24	Hex cap screw, M10 x 1.5 x 25 -- 25S	2
10	HAR-50-05-500-046	Flat Washer Selected Narrow 0.25	1
11	HAR-03-08-24	SHCS 0.25-20x1.5x1.5-S	1
12	HAR-79-#8-08	Slotted RDHD Screw #8-32x 1/2"	2
13	HAR-25-04	1/4" Course Thread Zinc Finish Hex Nut	1

Track Wheel Assembly Parts List



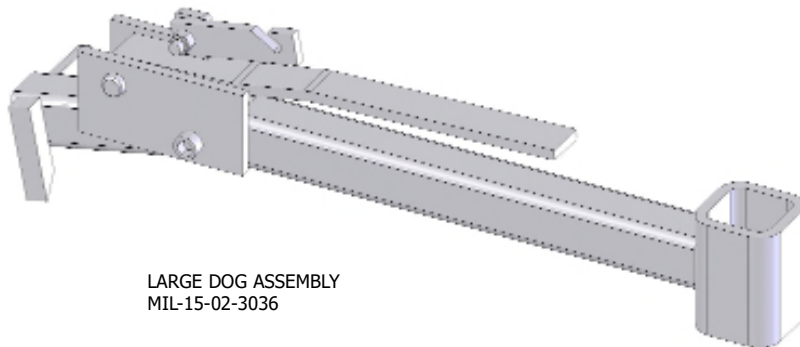
Item No.	Part No.	Description	Qty.
1	WHE-04-12-53	TRACK WHEEL	1
2	HAR-12-12-64	SHOULDER BOLT	1
3	HAR-55-12-1000-125	3/4"X1"X1/8" ZNFW	2
4	HAR-50-12-1166-76	3/4" ZFW	1
5	PIN-08-25	C-CLIP	1
6	BEA-03-12-24T	3/4" BEARING	1

Site Glass Assembly Parts List



Item No.	Part No.	Description	Qty.
1	KIT-001	SIGHT GLASS BAR	1
2	KIT-001	SIGHT GLASS BAR	1
3	HAR-15-M10	10MM-1.5X25 8.8 Z	2
4	HAR-36-M10	M10-1.5 FLANGE NUT	2
5	KIT-001	O30/36 SIGHT GLASS BRACKET	1
6	HAR-51-03-438-047	#6 P FW	4

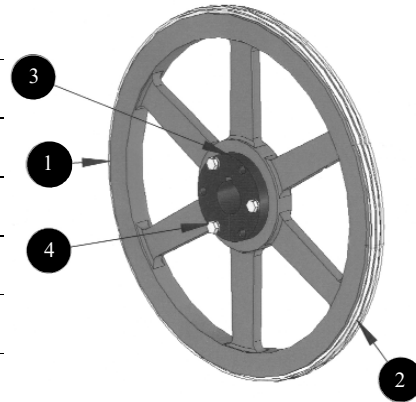
Large Dog



Sheave Assembly Parts List w/Belting for HFE-30/36

DH-1078

Item No	Part No	Description	Qty
1	1B184SK	18" Sheave w/Red Paint	1
2	HF-56.5	Belting Crown Top	1
3	SK-1-1/2	Q Bushing for Sheaves	1
4	F-42836	Bolt	3



DISPUTES

All disputes, claims and causes of action arising out of the delivery, use, or warranty claims for personal injury and or property damage must:

1. Claimant must provide a written notice of the claim or dispute to the company (at the address below) at least 30 days after the claim arose prior to commencement of any action;

2. Company has 60 days to make a decision on the claim and will provide a written response to claimant;

3. No action may be commenced until after the company has provided its decision on the claim;

4. All claims against the company for any cause related to delivery, design defects, repairs, use of the equipment or warranty shall be filed in Supreme Court, Oneida County,

State of New York. The parties may file for Arbitration in Oneida County New York after consent by both parties.

5. Construction and interpretation of this agreement and any and all claims shall be subject to the Laws of the State of New York.

6: The address for submission of claims is:

Hud-Son Forest Equipment
PO Box 345
8201 State Route 12
Barneveld, NY 13304

7. Notices under this agreement must be in writing and sent by certified or registered mail

This manual is filled with the latest information and specifications at the time of publication. We have the right to make changes as they are needed. Any of the changes in our product may cause a variation between the illustrations and explanations in the manual and the item that you have purchased.

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Thank you for choosing

Hud-Son Forest Equipment, Inc.
8201 State Rt. 12, PO Box 345 Barneveld, NY 13304
info@hud-son.com

*We have an onsite technician available to answer any questions
Monday - Friday 8 to 4:30 and Saturday from 8 to noon. 315-896-7297.*

WWW.HUD-SON.COM • 800.765.SAWS